

39 N. 5<sup>th</sup>.

An.

Inaugural Dissertation.

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Passed March 19

1824

W. S. H

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Hydrocephalus Acutus.

By Cuthbert L. Gerson of Maryland  
 Licentiate in Medicine of Md  
 and Member of the Philad<sup>a</sup>  
Medical Society.

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To,

William D. Brinckle, A.M., M.D.

Sir,

It affords me much pleasure  
in seizing on the first opportunity, to  
express my gratitude for your uncom-  
ting attention, while prosecuting my stu-  
dies under your direction. I am like-  
wise much indebted to you for the  
attention equally dear, for which I re-  
nder this tribute to your friendship.

The Author.

*[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]*

*[Faint, illegible handwriting on the right edge of the page, possibly from the adjacent page.]*

## Deperitation 2.

From a consideration of the immense fund of talent displayed in the productions of some of the ancient gentlemen of our profession, I am not a little astonished that hydrocephalus, a disease so prevailing in its ravages on the young and rising part of the community, was not noticed as a separate disease until so late as the year 1788. At which time, it was taken minutely into consideration by Doctor Whytt, who has, I conceive, marked out the course which is to direct us to its correct pathology. Since that period however, it seems to have at-  
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trasted that attention, which its formidable nature necessarily demands.

Hydrocephalus, like other dangerous affections, is not by any means limited in its sphere of action. It occurs more particularly in warm climates, and in the mildest seasons.

Children from the age of one, to nine or ten years, appear to be the most common victims which this malady selects; though we sometimes see the 'his medicatrix Naturæ' in the adult, struggling with this almost certain messenger of death. It is the opinion of most physicians who have noticed the disease, and indeed I have observed it myself, that families, or persons, of delicate constitutions, scrophulous taint, and more than ordinary brilli-  
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array of intellect, are most subject to.  
Various and contradictory have  
been the opinions, entertained by res-  
pectable practitioners of medicine re-  
specting the nature of this disease.  
Formerly, physicians as Fothergill,  
Jacquin, Withering, Whitt, Smyth &c  
supposed it to be an affection of a trop-  
ical nature, while the physicians of  
the present day, say it may with more  
propriety be clasped with the inflam-  
matory diseases, and disclaim any  
thing like an idea of its being a dis-  
ease similar in any respect to a trop-  
ic. It is to the work of Dr. Cheyne, that  
the new views of the pathology of hydro-  
cephalus may be traced, and it is  
his ideas that no small share of the  
medical men of the present day

the first of the month of January 1841  
I received from you a letter of the 26th  
inst. in relation to the matter of the  
sale of the land of the late John  
Smith. I have been thinking of writing  
you in relation to this matter for some  
time but have been so busy that I have  
not had time to do so. I have now  
the pleasure to inform you that the  
land of the late John Smith has been  
sold to the highest bidder for the sum  
of \$1000.00. The purchaser is Mr. John  
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have adopted; without, I am persuaded  
 just giving ~~them~~ due degree of reflection.  
 The author, whose name I have just  
 mentioned, in his pathology of hy-  
 drocephalus says, "That in this dis-  
 ease there is produced a serous con-  
 gestion, in addition to and arising  
 from the increased salivary action;  
 that the effusion of serous fluid ar-  
 ises from this serous congestion, that  
 the effusion has a tendency to coun-  
 teract the bad effects of the increas-  
 ed action, and retard the fatal ter-  
 mination of the disease, is evident in  
 fact, I think it no harsh opinion,  
 that death would occur earlier in  
 this disease, did not the fluid ex-  
 ude, and thus continue to the brain  
 the necessary degree of support"

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Hence it may be seen that this author  
 is possessed of an opinion, that the efflu-  
 sion into the ventricles is nothing more  
 than the effect, and no way calcula-  
 tive, to aggravate, but rather to mitigate  
 the existing morbid action: an opinion  
 of this kind although emanating from  
 a source so respectable I am at once  
 disposed to pronounce as inconceivably  
 absurd. That it is produced by a nervous  
 congestion succeeded by an increased  
 inflammatory action, no one, I think  
 will deny. But I am disposed to  
 view the last stages of this disease as  
 of a dropical nature, and am as  
 well convinced that the uniform fatal-  
 ity of the disease is owing to this ac-  
 tion. In this opinion, I am supported  
 by the high authorities of Weytt, who

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when speaking of this disease, says the immediate cause of every kind of dropsy is the same; viz. such a state of the parts as makes the exhalant vessels throw out a greater quantity of fluid than the absorbents can take up."

As Dr. Keen's ideas of the nature of hydrocephalus are not in exact accordance with the views on the subject entertained by myself, I shall endeavour to point out some of the errors advanced by him, as well as to establish those which I have adopted as most correct.

"It is an incontrovertible fact, that there is little or no space for containing fluids in the divisions called ventricles, in a healthy state of the brain; consequently, this effusion into

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The mansion of life and sensation  
 as extraneous matter, acts as a ree-  
 citing cause, and renders the disease  
 still more ungovernable. If this be  
 not the case, how can practitioners  
 decide so accurately when this effu-  
 sion takes place, & why does Dr  
 Cheyne himself, in another part of  
 his work, pronounce it an incur-  
 able disease when it does terminate  
 in this manner. The immediate death  
 of persons who have been labouring un-  
 der ascites for a considerable length of  
 time, from the sudden concentration  
 of the water, does not strengthen Dr  
 Cheyne's theory in regard to the stim-  
 ulus of the water on the adjacent  
 parts, particularly if we take into  
 consideration the vast difference

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of structure, as well as the functions  
 of the parts, implicated in the two diseases.  
 2<sup>nd</sup> That it is a dropy or nearly al-  
 lied to it, is more than probable from  
 a consideration of the common cause  
 which produces both, viz. congestion.  
 3<sup>rd</sup> That the symptoms are similar  
 to those that occur in dropy, as a  
 suppression of urine, of perspiration,  
 costive state of the bowels, hot dry skin,  
 much thirst, paralysis of one side  
 of the head, of one arm, difficult  
 respiration &c. symptoms taken  
 collectively are certainly in evidence  
 of a dropical action. As a proof that  
 the effusion does not act as an ir-  
 ritant or hasten on the death of the  
 patient; it has been stated, that death  
 has taken place after a develop-  
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ment of the symptoms peculiar to hydrocephalus, and on dissection, nothing like a collection of serum has been found in the ventricles. In such cases, I think it could not with propriety be termed hydrocephalus, as in all terminations of the kind, we have but one of the three stages which are mentioned as characteristic of the disease, which is the stage of excitement in which as far as my limited experience goes the symptoms resemble very much those of an ordinary attack of inflammation of the brain.

As to the theory of its being an inflammation peculiar in any respect, I have seen no satisfactory proof. I ask is not an effusion into

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the contents of the trachea as the effect  
of a high degree of inflammation, as  
much a dropsy, as a collection of mor-  
tu in the thorax as the consequence of  
an in-<sup>flammatory</sup> action in some one  
of the viscera of that cavity.

Pneumothorax is rather distin-  
guished in its mode of attack, sometimes  
it runs its course and terminates in  
death in a few days; and sometimes  
it is more mild in its assault, and  
assumes a tedious and protracted  
form, consequently, it calls for some  
division, and has by some been dis-  
tinguished into the Idiopathic and Symp-  
tomatic, from the circumstance of its  
appearing either as an original dis-  
ease, or as the result of a preceding  
one, at first quite different. Each of

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these forms have again been divided into three stages, which are said to be known by particular attention to the state of the pulse with other symptoms. They are called  
1<sup>st</sup> The stage of increased sensibility.

2<sup>nd</sup> The stage of torpor, or coma  
tense stage.

3<sup>rd</sup> The convulsed stage.

But in very many cases these stages are not well defined.

The symptoms which mark the incipient stage of hydrocephalus are numerous. Indeed it is a general remark by practitioners, that in no disease is there a greater difficulty of laying down a general description of symptoms, than in

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this; so protiform are the symptoms themselves. I shall content myself with delineating those only that are most prominent; and general in their appearance.

It begins with a slight degree of fever, with a pain in the head and abdomen, sick stomach, flushed face, hot dry skin, delirium, and coma, which make their appearance in rapid succession and terminate the existence of the little sufferer in a few days; very often, however, the patient for a considerable length of time previous to the attack becomes languid, pensive and uncomfortable, without any particular complaint. After a while the appetite is impaired, stom-

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now becomes irritable, with a vomiting of bile, constipation bowels though sometimes he purges clayey or black (acid stools) pain in the head with an intolerance of light and sounds watching and quick pulse constitute the symptoms of the first stage.

In the second, the patient is not easily aroused, has a great inclination to sleep, but is much interrupted with sharp pains shooting through his head; when in bed the child is constantly rolling about, or putting his hands up towards his head, his pupil is dilated, pulse slow, suffusion of the an-nula, and the eye which was in the first stage morbidly sensible, now loses its lustre and expression

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The third stage is known by the increased arterial action, strabismus, hurried breathing, stupor and convulsions; symptoms which are universally regarded by the discerning practitioner as the harbingers of death.

Nothing however can be <sup>more</sup> irregular than the progress and development of the foregoing symptoms. The head as he is very often not complain even of until effusion has taken place, which is a very striking proof of the existence of the inflammatory action without much pain. At other times, the most alarming symptoms will suddenly remit, and the child at the same time in eminent danger. The eye has heretofore been looked

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upon as one of the most unerring  
criteria, but like the pulse, in  
some particular cases, it will be  
found very fallacious.

I shall now make a few obser-  
vations on the symptomatic form of  
hydrocephalus. This is by far the  
most frequent in its appearance and  
is likewise the most manageable  
of the two kinds. It appears that there  
is in child hood a greater supply  
of blood to the digestive organs, and  
the brain, than to any other parts of  
the body. These two organs are lia-  
ble to numerous disarrangements, from  
the morbid stimulation of food and  
drink on the one part; and a mental  
irritation on the other. From the di-  
rect sympathy existing between the

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two organs, one cannot continue long diseased without drawing the other into a similar state. This disease then, almost always occurs from the brain morbidly sympathizing with a disordered state of the elementary canal, or from a congestion or an interruption of the functions of some of the abdominal viscera, but more particularly with that of the liver; hence I suppose all cases of hydrocephalus were produced by previous irritation of the liver; such ideas I think rather just in the confines of reason. In what manner this morbid sympathetic influence is propagated, is not for me to determine in this place. That irritants in the primæ viæ bring on this

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diarrhea, we need go no farther for proof than the fact, of some of the most alarming symptoms being relieved by a recourse to purgative medicines.

Symptomatic hydrocephalus comes on in a slow insidious manner, and to an inattentive observer it would appear that there was little or no derangement taking place; but in the course of a few days, some abdominal derangement will be evident. The disease at this time may be prevented by a prompt removal of the primary source of irritation.

The symptoms which characterize this form of the disease, are languor, an unhealthy countenance, dullness of the eye, skin hot and

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dry, bowels torpid appetite irregular, and tongue white. If the bowels be open, the stools here as in the other form, are white clayey or bilious. The abdomen now becomes somewhat swollen and sore; the pulse a little accelerated and the heat is likewise drawn in to the general disorder. In Yearlings children at this period there is a perception of heat and quickness of apprehension much beyond their years.

The appearances of the brain of children who die of hydrocephalus are an enlarged state of the vessels of the meninges spread out, and lying in the sulci, and considerable adhesions as well as thickening of this structure will likewise

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be observed. But the most common of all morbid appearances is the effusion of water either in the ventricles, or between the lobes of the brain, or between the dura and pia mater. This is generally believed to be the effect of the increased inflammatory action of the blood vessels of the part, and appears to be an effort of nature, for the present relief of the overloaded state of the vascular system. This very effusion though ultimately proves fatal in its consequences both by compression and irritation in this case, as in many others, produces irremediable injury by relieving herself at an improper place.

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of cure, when first called to a patient labouring under hydrocephalus, we should be very particular in our examinations and enquiries, not only in regard to symptoms then existing, but to the present state of the child, in order that we may if possible designate the kind. An object in some cases very difficult to effect, as the symptoms which I have stated are not always well developed consequent by the diagnosis in many cases is difficult.

The treatment to be adopted in the first stage of this disease should vary according to the symptoms which present themselves. If they are such as were mentioned, as spasms

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Letting an ineffectual attack of the use  
 of this form: the one concurrent with  
 the nature of the disease would hesitate  
 a moment to resort to the use of it. lax-  
 ative, which should be used freely but with  
 discrimination. - If we having affor-  
 ded some relief by this practice, our  
 next resource is from purgatives. Of  
 these calomel I think claims our first  
 attention. Its efficacy in overcoming  
 constipation, its peculiar power on the  
 liver, its promptness in attaining the  
 sections of the stomach & bowels &c are  
 the properties which particularly recom-  
 mend its employment in this dis-  
 ease. Too much cannot be said of the  
 propriety of purging here, as it is on the  
 judicious exhibition of them, that much  
 of our successful sleepers do. Calomel

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combined with gamboge or jalap, and administered in such doses as to procure copious evacuations, daily repeated, will be found very beneficial.

But if cerebral irritation be urgent, the jugular vein or temporal artery should be opened and blood let to a considerable extent. In conjunction with this mode of treatment, the head should be shaved and cups applied; or perhaps leeches would seem a better prospect under these circumstances as they detract blood with more ease and are not attended with the distressing symptoms which the operation of cupping is found to produce. This course when vigorously persisted in will sometimes be productive of very salutary effects, nor should the practitioner let

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the advantage thus gained be neglected as the bowels, as well as the part on which the disease spends its force, require the utmost degree of attention. If however some circumstances continue which would lead to a belief in the continuance of the disturbance of the encephalon, accompanied with a diminution of arterial action, it would be advisable to discontinue the use of the lancet, and resort to cold applications such as powdered ice or cloths wrung out of ether and water or vinegar and water.

As yet I have said nothing of the use of blisters, the well timed application of which constitute very important remedies in the many

[illegible]

ment of hydrocephalus they should be applied to the nape of the neck, on the forehead, or all over the head. It is very often necessary to keep up the discharge, to which alone the salutary effect is due. The blister should be repeated with the usual precautions as if there appears a disposition in the part to heal the blister might be re-applied.

A good deal has been said of the powers of digitalis in that disease. But as to its influence in that or any other disease requiring depletion I entertain strong doubts, nor am I disposed to value its remedial powers very highly after effusion has taken place. That it opposes the power of arresting the excretion no one

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would pretend to deny, but I strenuously  
 contend that this property is not suf-  
 ficiently important as to recommend  
 its application in this disease. I must  
 confess it is not with a little diffidence  
 that I oppose the opinions of men of ex-  
 perience in regard to the operation of  
 this or any other medicine, but being  
 controlled by the liberal principles  
 set forth by more than one of the gentle-  
 men into whose hands this essay is to  
 fall, I make no hesitation in giving  
 the above as my candid belief, which  
 is drawn from some experience in  
 its use.

When effusion takes place our  
 whole reliance is to be placed on the  
 sudden introduction of mercury into  
 the system. This action should be in-  
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exceed by the prompt exhibition of calomel in large doses, together with mercurial frictions, employed to a very considerable extent. The treatment under such circumstances should be stronger than it is ordinarily made.

If it should come on with the train of symptoms mentioned as indicating a dyspeptotholic affection, the course then to be pursued is self-evident, which is to clear the whole line of intestines of its offensive contents, with a preparation, of which, calomel is the base. If there be much arterial excitement the latter must be withheld, but not carried to such an extent as in the idiopathic. The evacuations themselves are the best criteria to direct us in regard to the continuance of the purgative course;

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After effusion has taken place all  
 with in pronouncing the case a desper-  
 ate one, an opinion drawn from a  
 knowledge of the insolvency of the at-  
 tempts in the part where the effusion  
 mostly takes place. From the persua-  
 sion of the foregoing opinion I am  
 aware that much mischief at times  
 has arisen. In order then to guard  
 against it, it should be born in mind  
 that the symptoms of actual effusion  
 are very equivocal, and may be clo-  
 ly imitated by a turgescence of the ce-  
 rebral vessels from this circumstance  
 then let us learn a practical precept:  
 which is, not to discontinue the remedies  
 proper in effusion until symptoms  
 make their appearance which we  
 know to be the precursors of death;

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If however the child does not  
 sink under the violence of the disease,  
 and symptoms manifest themselves  
 which predict a more favourable  
 termination, much care on our  
 part is necessary; as in no disease  
 is there a greater liability to a relapse  
 than in this. The child is mostly left  
 in a very debilitated <sup>state</sup> on the subsi-  
 dence of so formidable a disease.  
 Our business then is to use every means  
 of supporting the strength of the child.  
 In effect this we must resort to the  
 use of tonics and a mild and nour-  
 ishing diet in conjunction with gentle  
 exercise and change of air.



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